AMENDMENTS TO THE CLAIMS

(Currently Amended) A method for preparing an anti-microbial or anti-coagulating
polymer resin comprising the step of mixing a polymer resin with at least one kind of
pharmaceutically active material without using a solvent,

wherein the pharmaceutically active material is an anti-microbial selected from the group consisting of grepafloxacin, sparfloxacin, clinafloxacin, enoxacin, lemefloxacin, norfloxacin, pipemidic acid, ciprofloxacin, temafloxacin, tosufloxacin, ketoconazole, itraconazole, econazole, isoconazole, fluconazole, miconazole, terbinafin, a salt thereof, and a mixture thereof,

wherein the pharmaceutically active material is an anti-coagulant selected from a group consisting of warfarin, acetylsalicylic acid, ticlopidine, triflusal, clopidogrel, cilostazole, a salt thereof, and a mixture thereof, and

wherein the method comprises the step of adding one or more kinds of additives selected from a group consisting of a dispersant, an anti-oxidant, and a heat stabilizer,

wherein the polymer resin is selected from a group consisting of polyetherimide, polyethylene, polypropylene, polycarbonate, polyvinylchloride, polystyrene, epoxy resin, polytetrafluoroethylene, polyacetal, polyamide, polyurethane, ethylene-vinylacetate copolymer, polymethylmethacrylate, polyvinylalcohol, linear low density poly ethylene, low density polyethylene, high density polyethylene, acrylonitrile-butadiene-styrene, styrene-acrylonitrile, polyacrylonitrile, polybutadiene, polyacrylic acid, polyacrylimide, polysulfone, polyacetal, polyamide-imide, polytetrafluoroethylene, polyneoprene, polydimethylsiloxane, polymethylmethacrylate, polyetheretherketone, polyphenylenesulfide, polyvinylfluoride, polyvinylacetate, polyvinylidinefluoride, polyether sulfone, polycaprolactone and a copolymer thereof, a silicon resin; a natural rubber; a synthetic rubber; and a mixture thereof,

wherein the dispersant is N,N'-ethylene bis stearamide, polyethylene wax, or a mixture thereof.

- (Original) The method according to claim 1, wherein the pharmaceutically active material is contained in an amount of 0.1 to 30 wt% of the total composition.
- (Original) The method according to claim 1, wherein the pharmaceutically active material is contained in an amount of 0.1 to 20 wt% of the composition.

4. - 8. (Canceled)

- (Original) A medical polymer resin prepared by the method of claim 1, which has a maximum release concentration of pharmaceutically active material of 10 ppm/100 hrs.
- 10. (Currently Amended) A method for preparing an anti-microbial or anti-coagulating medical appliance comprising the steps of:
- a) mixing a polymer resin with at least one kind of pharmaceutically active material without using a solvent; and
 - b) molding and processing the mixture without using a solvent,

wherein the pharmaceutically active material is an anti-microbial selected from a group consisting of grepafloxacin, sparfloxacin, clinafloxacin, enoxacin, lemefloxacin, norfloxacin, pipemidic acid, ciprofloxacin, temafloxacin, tosufloxacin, ketoconazole, itraconazole, econazole, isoconazole, fluconazole, miconazole, terbinafin, a salt thereof, and a mixture thereof,

wherein the pharmaceutically active material is an anti-coagulant selected from a group consisting of warfarin, acetylsalicylic acid, ticlopidine, triflusal, clopidogrel, cilostazole, a salt thereof, and a mixture thereof, and

wherein the medical appliance is selected from a group consisting of a silicon catheter, a prosthetic foot, a prosthetic hand, a medical catheter, a surgery glove, artificial skin, an artificial kidney, an artificial articulation, an artificial bone, a blood pack, a tube, a syringe, an artificial tooth, an artificial bone-fixing apparatus, an artificial blood vessel, an artificial fingernail, and an artificial toenail.

wherein the method comprises the steps of mixing a silicon resin with a pharmaceutically active material, and molding and processing the mixture at a maximum temperature of 600 °C/sec without using a solvent to prepare a silicon catheter.

11-14. (Canceled)

- (Original) An anti-microbial or anti-coagulating medical appliance prepared by the method of claim 10.
- 16. (Original) The medical appliance according to claim 15, wherein the medical appliance has a maximum release concentration of pharmaceutically active material of 10 ppm/100 hrs.
- 17. (Previously Presented) A method for preparing a master batch or compound comprising the steps of:

mixing a resin selected from a group consisting of linear low density polyethylene, polypropylene, polyethylene, ABS, polycarbonate, polystyrene, and polyvinylchloride resin with at least one kind of pharmaceutically active material without using a solvent; and

molding and processing the mixture at 100 to 300 °C to prepare a master batch or compound,

wherein the pharmaceutically active material is an anti-microbial selected from a group consisting of grepafloxacin, sparfloxacin, clinafloxacin, enoxacin, lemefloxacin, norfloxacin, pipemidic acid, ciprofloxacin, temafloxacin, tosufloxacin, ketoconazole, itraconazole, econazole, isoconazole, fluconazole, miconazole, terbinafin, a salt thereof, and a mixture thereof, wherein the pharmaceutically active material is an anti-coagulant selected from a group consisting of warfarin, acetylsalicylic acid, ticlopidine, triflusal, clopidogrel, cilostazole, a salt thereof, and a

18-19. (Canceled)

mixture thereof.

- (Original) A master batch or compound prepared by the method of claim 17.
- 21. (Original) The master batch or compound according to claim 20, wherein the master batch or compound is used in any selected from a group consisting of a water-purifying apparatus, a cutting board, a food packaging film, a food container, a refrigerator, a washing machine, a computer and peripheral device, a drinking water tank, a water tub, bidet nozzle and a urinal cover, desk and chair, an automobile handle, infant goods, a bath tub, and a cosmetic container.
- 22. (Currently Amended) A method for preparing paint comprising the step of mixing an anti-microbial, polymer and additive,

wherein the anti-microbial is selected from a group consisting of grepafloxacin, sparfloxacin, clinafloxacin, enoxacin, lemefloxacin, norfloxacin, pipemidic acid, ciprofloxacin, temafloxacin, tosufloxacin, ketoconazole, itraconazole, econazole, isoconazole, fluconazole,

miconazole, terbinafin, a salt thereof, and a mixture thereof, a salt thereof, and a mixture thereof,

wherein the with a polymer resin selected from a group consisting of alkyd resin, acryl resin, urethane resin, epoxy resin, phenol resin, urea resin, melamine resin, modified resin thereof, and a mixture thereof,

wherein the additive is selected from hydroxypropylacrylate, 1,6-hexanedioldiacrylate, pentaerythritoltriacrylate, or polyethylenedipentaerythritol.

23. (Original) The method according to claim 22 further comprising the step of adding one or more kinds of additives selected from a group consisting of a pigment, a diluent, and physical property controlling monomer and oligomer, and polyol.